

HISTORY

COLLEGE OF MEDICINE

1959-1968

CHAPTER - 13

DEPARTMENT OF PEDIATRICS

Earl Hayes Baxter, M.D.

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## I. Historical Introduction

The Department of Pediatrics was established in October 1941 on recommendation of Dr. Hardy Kemp, Dean of the College of Medicine from September 1 to December of 1941. Dr. Earl Hayes Baxter was appointed Chairman of the Department and Professor of Pediatrics. He had been Chief of the Division of Pediatrics in the Department of Medicine since 1939, following the retirement of Dr. Elmer G. Horton.

During the war years there was no opportunity for expansion either in personnel or programs. The services of all available pediatricians left in the city and of some interested general practitioners were needed to maintain a teaching program for medical students in the accelerated educational program of the college.

Following the war, Dr. Charles Austin Doan became Dean of the College of Medicine in 1945. His first act was the approval of the appointment of Dr. Warren E. Wheeler as the first full time member in the Department of Pediatrics. Other full time members of the faculty were added in the next few years as subdivisions were developed within the department: Dr. Thomas E. Shaffer, school health programs, newborn and adolescent; Dr. H. Hugh Missildine, child psychiatry; Dr. William Newton, pediatric pathology; Dr. Philip Ambuel, ambulatory pediatrics; Dr. Don M. Hosier, pediatric cardiology; Dr. Thomas K. Oliver, pulmonary physiology; Dr. Hilda Knobloch, child development, and Dr. Robert Blizzard, endocrinology, who was followed by Dr. Orville Greene. All of these carried on an active teaching program and developed research activities within their own areas of interest.

Many of the residents in the department went into practice within the city of Columbus and became active teachers in the department. The teaching program has always enlisted and enjoyed the cooperation of the pediatricians in practice as part time teachers. It was the philosophy of the department that better teaching could be achieved with a combination

of full time and part time personnel rather than with either group alone.

Plans for the present University Hospital were formulated in 1946 to 1948. A separate building for pediatrics to provide about 200 beds was designed paralleling Upham and Means Hall. However, because of lack of building funds and the increased cost of the proposed University Hospital plan, the administration of the College of Medicine sacrificed the pediatric building and was willing for the clinical teaching to be held in The Children's Hospital. This hospital provided slightly over 100 beds at that time. Through expansion and new building programs this was increased in 1960 to approximately 301 beds making it one of the largest Children's Hospitals in the United States. Research facilities were provided by a new building, Ross Hall, at Children's Hospital through a grant from Health, Education, and Welfare, with matching funds from the Ross Laboratories. This was completed in 1962, followed by the development of the Children's Mental Health Center in the next year.

The Clinical Research Study Center was approved by the Department of National Institutes of Health in 1962 and was opened for service in the following year. This is under the direction of Dr. Juan Sotos.

The Children's Hospital was approved for residency training in Pediatrics in 1931. Since there was no Department of Pediatrics within the College of Medicine, there was no recognition of the University in the approval. However, in 1941 there was a gradual amalgamation of the residency training program within the Department of Pediatrics and The Children's Hospital. Other sub-specialties in children's diseases are approved for residency training in connection with the University Health Center.

The budget of the department increased until in 1962 it was approximately \$160,000 per year. All but 15 or 20% of this came from the College of Medicine. The rest was provided by The Children's Hospital

and research grants from federal and state sources. At that time research funds totalled approximately \$325,000 per year.

The aims and objectives of the department have been to provide training in the principles of the care of children for young men and women who have been carefully chosen for admission to the College of Medicine; to provide a comprehensive program for the care of the child from birth through adolescence with a thorough understanding of all his shortcomings and special attributes; and to provide and develop facilities for research in both clinical and basic medicine.

## II. Departmental Organization and Other Academic Affairs

The decade of 1959-1968 has seen the fruition of some of the aims and policies of the Department of Pediatrics, as well as the initiation of many new programs involving the entire Department as well as various members of its faculty. The full time faculty involved in teaching & research has increased from twelve to forty. Some of these are joint appointments with other departments as microbiology, pathology, psychology, and sociology, all of them necessary to promote full comprehensive health care for children and a complete teaching program in Pediatrics. This has been instrumental in raising the level of this Department to the equal of any in the United States and superior to most of them. However, at times a lack of financial support or of much needed facilities has resulted in a temporary delay in realization of some programs.

It has been recognized that a Department such as this must lend itself to the development of sub-specialties in various fields related to the core of pediatrics. It is to be emphasized, nevertheless, that these faculty members are pediatricians first, with interest in the sub-specialty secondarily. This means that the child is seen and recognized as a complete functioning unit rather than an aggregation of separate and disjointed organs and systems. There are now 16 subdivisions within the Department, each under the direction of a leading authority. The following is a list of the subdivisions and their directors:

<u>DIVISION</u>	<u>DIRECTOR</u>
General Pediatrics	John A. Klamar, M.D.) Co-Directors
	William Rueger, M.D.)
Adolescent Medicine	Thomas E. Shaffer, M.D.
Allergy	Charles E. Miller, M.D.
Cardiology	Don M. Hosier, M.D.
Endocrinology	Juan F. Sotos, M.D.
Genetics	Stella B. Kontras, M.D.
Handicapped Children	Antoinette Eaton, M.D.
Hematology	William A. Newton, M.D.
Infectious Diseases	Henry G. Cramblett, M.D.
Metabolism	Juan F. Sotos, M.D.
Neonatology	Alex Robertson, M.D.
Neurology	Earl S. Sherard, M.D.
Nutrition	George M. Owen, M.D.
Psychology	Herbert E. Rie, M.D.
Pulmonary	Gordon A. Young, M.D.
Renology	Carl E. Nelsen, M.D.

In 1963, Dr. Baxter retired as Professor and Chairman of the Department of Pediatrics. He was succeeded by Dr. Edward V. Turner as Acting Chairman and Professor until January 1, 1964, when Dr. Bruce D. Graham was appointed Professor and Chairman of the Department. Each of them also held the joint appointment of Chief of Staff of the Columbus Children's Hospital.

On July 1, 1963, Dr. Warren Wheeler who had been Professor in the Department of Pediatrics resigned to become Professor and Chairman of the Department of Pediatrics, University of Kentucky in Lexington. Professor Thomas K. Oliver, Jr. resigned to become Professor of Neonatology at the University of Washington in Seattle. Dr. William O. Robertson resigned at the same time and became Assistant Dean and Medical Director of the Hospital at the University of Washington. Dr. Orville Green who had been Chief of the subdivision of Endocrinology became Director of the same field at the Children's Memorial Hospital in Chicago, Northwestern University. Dr. Hilda Knobloch, Head of Child Development, resigned in January 1966 to be succeeded by Dr. Robert Wehe. Dr. W.H. Missildine, who was Head of the Division of Pediatric Psychiatry, requested a leave of absence and has been replaced by Dr. Dean Coddington.

## Academic Honors and Awards

## Contributions to Books

1959

Baxter, E.H.: Chapter 16. Physical Diagnosis, Edition 1, Prior & Silberstein editors, C.V. Mosby Company, St. Louis.

1960

Wheeler, Warren E.: Chapters 32 and 45. Communicable and Infectious Diseases, Top, Franklin T., Sr. editor, C.V. Mosby Co., St. Louis.

1962

Meites, S. and Faulkner, W.R.: Practical Micro and General Procedures in Clinical Chemistry. Charles C. Thomas Publishers, 1962.

1963

Baxter, E.H.: Chapter 16. Physical Diagnosis, Edition 2, Prior & Silberstein editors, C.V. Mosby Company, St. Louis.

1964

Shaffer, Thos. E.: Preventive Pediatrics, Chapter Textbook of Pediatrics, 8th. Edition, Waldo E. Nelson editor, W.B. Saunders Company, Philadelphia 1964.

1965

Hamparian, V.V.: Newer Respiratory Viruses in First Annual Symposium on Applied Virology. Murray Sanders and Edwin H. Lennette editors, Minneapolis, Olympic Press, 1965, pp.103-122.

Meites, S.: Bilirubin and Iodized Oil (Lipiodol) Test for Fat Absorption. Handbook of Clinical Laboratory Data, H.C. Damm editor, Chemical Rubber Company, Cleveland 1965.

Meites, S.: Editor-in-Chief, Standard Methods of Clinical Chemistry, Vol.5. Academic Press, Inc. 1965.

1966

Cramblett, H.G.: Less Common Systemic and Visceral Mycotic Infections. Chapter in Pediatric Therapy, Harry C. Shirkey editor, Edition 2, C.V. Mosby Company, St. Louis, 1966, pp.430-436.

Owen, G.M.: Influence of Age, Sex, and Nutrition on Body Composition During Childhood and Adolescence. Chapter 9, Human Development, W.B. Saunders Company, Philadelphia 1966.

Owen, G.M.: Sex Related Differences in Body Composition in Infancy. Chapter 10, Part 2, Human Development, W.B. Saunders Company, Philadelphia 1966.

Stroebe, F.W. and Cramblett, H.G.: Escherichia Coli Infections. Chapter in Current Pediatric Therapy 1966-1967, Sydney S. Gellis and Benjamin M. Kagan editors, W.B. Saunders Company, Philadelphia 1966, pp.641-645.

1967

Cramblett, H.G.: Chapters Eleven, Twelve, Thirteen, Eighteen, Twenty-Five, and Twenty-Six. Disorders of the Respiratory Tract in Children, Edwin Kendig editor, W.B. Saunders Company, Philadelphia 1967.

Hamparian, V.V. and Cramblett, H.G.: Chapter Sixty-Four, Viral Etiology of Respiratory Illness. Disorders of the Respiratory Tract in Children, Edwin Kendig editor, W.B. Saunders Company, Philadelphia 1967.

1968

Addanki, S. and Sotos, J.F.: Intestinal Desaccharidases. Handbook of Clinical Laboratory Data, 2nd. Edition, W.R. Faulkner, H.C. Damm, and J.W. King editors, Chemical Rubber Company, Cleveland 1968.

Ambuel, J.P.: Appointment Systems. Ambulatory Pediatrics, M. Green, R.J. Haggerty editors, W.B. Saunders Company, Philadelphia 1968, pp. 62-

Coddington, R.D.: Disorders of Childhood. Fundamentals of Psychiatry, Chapter 26, 2nd. Edition, I. Gregory editor, W.B. Saunders Company, Philadelphia 1968.

Cramblett, H.G.: Acute Laryngitis. Current Pediatric Therapy, H.F. Conn editor, W.B. Saunders Company, Philadelphia 1968, pp. 29-30.

Sotos, J.F.: Leucine Sensitivity. Handbook of Clinical Laboratory Data, 2nd. Edition, Chemical Rubber Company, Cleveland 1968, p. 304.

Sotos, J.F.: Giantism and Acromegaly. Chapter in Endocrine and Genetic Diseases of Childhood, Lytt Gardner editor, W.B. Saunders Company, Philadelphia 1968, p. 142.

Sotos, J.F.: Pituitary Tumors. Chapter in Endocrine and Genetic Diseases of Childhood, Lytt Gardner editor, W.B. Saunders Company, Philadelphia 1968. p. 170

Stroebel, F.W. and Cramblett, H.G.: Enteropathogenic Escherichia Coli Gastroenteritis. Current Pediatric Therapy, 3rd. Edition, W.B. Saunders Company, Philadelphia 1968. p. 719.

HONORS AND SPECIAL  
APPOINTMENTS

1958-1961	Warren E. Wheeler, M.D.	Editor-in-Chief, Amer. J. Dis. Child., A.M.A.
1958	Warren E. Wheeler, M.D.	Committee on Hospital Staphylococcal Infections, Council on Drugs of A.M.A.
1958	Warren E. Wheeler, M.D.	Member National Board of Medical Examiners



<u>DATES</u>	<u>NAMES</u>	<u>HONORS AND SPECIAL APPOINTMENTS</u>
1960	Warren E. Wheeler, M.D.	Associate Editor <u>Advances in Pediatrics</u> Vol.XI
1962	Warren E. Wheeler, M.D.	Associate Editor <u>Advances in Pediatrics</u> Vol.XII
1958-1966	E.H. Baxter, M.D.	Med. Advisory Committee State Services for Crippled Children
1958	E.H. Baxter, M.D.	Midwest Society Pediatric Research
1967	E.H. Baxter, M.D.	Member Columbus Planning Committee from Columbus Academy of Medicine
1964	Henry G. Cramblett, M.D.	Infectious Diseases Society of America
1966	Henry G. Cramblett, M.D.	Consultant, Seminar Services Division, National Communicable Disease Center
1966	Henry G. Cramblett, M.D.	Executive Committee of the College of Medicine
1966	Henry G. Cramblett, M.D.	Graduate Curriculum Committee Ohio State University
1967	Henry G. Cramblett, M.D.	American Academy of Micro- biology, Fellow
1967-1969	Henry G. Cramblett, M.D.	Council, Midwest Society for Pediatric Research
1967	Henry G. Cramblett, M.D.	American Association for the Advancement of Science, Fellow
1967	Henry G. Cramblett, M.D.	Scope Panel on Biological Products, Eighteenth Review of U. S. Pharmacopeia
1967-1969	Henry G. Cramblett, M.D.	Executive Committee, Graduate School
1967-1970	Henry G. Cramblett, M.D.	Clinical Research Fellowship Committee, National Institutes of Health
1967-1968	Henry G. Cramblett, M.D.	Faculty Council - OSU

<u>DATES</u>	<u>NAMES</u>	<u>HONORS AND SPECIAL APPOINTMENTS</u>
1967-1970	Henry G. Cramblett, M.D.	Graduate Council - OSU
1967-1970	Henry G. Cramblett, M.D.	Research Council - OSU
1968	Henry G. Cramblett, M.D.	Select Committee for Curriculum Study - OSU
1968	Henry G. Cramblett, M.D.	Consultant, American Medical Association Council on Drugs for the American Medical Association's publication <u>Drug Evaluation</u> , 1968
September 1968	Henry G. Cramblett, M.D.	Consultant, Health Research Facilities Branch, Division of Research Facilities and Resources, National Institutes of Health
1968-1969	Henry G. Cramblett, M.D.	Clinical Pharmacology Research Committee, Ohio State University
1966	Bruce D. Graham, M.D.	Medical Advisory Board State Services Crippled Children
1967	Bruce D. Graham, M.D.	Alternate Chairman, District V American Academy of Pediatrics
1967	Bruce D. Graham, M.D.	Medical Advisory Board on Educational Film Production.
1968	Bruce D. Graham, M.D.	Alternate Member, Faculty Council Ohio State University
1968	Bruce D. Graham, M.D.	Head Start Consultant. A.A.P: Hospital Care Committee
April 1967	Edward V. Turner, M.D.	Honorary Citation from The Ohio Hospital Association for outstanding services in the Administration of the Federal Hill-Burton Program by the Ohio Department of Health during May 1946 to Nov. 1967.
September 1967	William H.R. Howard, M.D.	Board of Directors of The Society for Pediatric Radiology
March 1968	Joseph Bullock, M.D.	The Clemens Von Pirquet Award from the Twenty-Fourth Annual Congress of the American College of Allergists.

<u>DATES</u>	<u>NAMES</u>	<u>HONORS AND SPECIAL APPOINTMENTS</u>
1967	Robert M. Conant, Ph.D..	Viral and Rickettsial Registry American Type Culture Collection, Washington, D. C.
1968	Robert M. Conant, Ph.D..	Enterovirus Subcommittee of the National Institutes of Health
1967	Vincent V. Hamparian, Ph.D.	Advisory Committee, Research Reference Reagents Board, National Institute of Allergy and Infectious Diseases
1967	Vincent V. Hamparian, Ph.D.	Viral and Rickettsial Registry American Type Culture Collection, Washington, D. C.
1967	Stella B. Kontras, M.D.	American Society of Human Genetics
1968	Stella B. Kontras, M.D.	Midwest Cytogenetics Society, President
1965 September	Samuel Meites, Ph.D..	Advisory Board of the Handbook of Clinical Laboratory Data, and the Practical Manual for Clinical Laboratory Procedures published biennially by the Chemical Rubber Co., Cleveland, Ohio
1967	Samuel Meites, Ph.D.	Advisory Group for Laboratory Performance Evaluation, Ad Hoc National Communicable Diseases Center, Atlanta, Georgia
1967	Samuel Meites, Ph.D.	Professional Examination Service, American Public Health Association, Consultant on Clinical Chemistry
1968	Samuel Meites, Ph.D.	Diplomate, American Board of Clinical Chemistry
1968	Samuel Meites, Ph.D.	Member, Advisory Board, Handbook of Clinical Laboratory Data, 2nd Edition, 1968, Chemical Rubber Company, Cleveland, Ohio
October 1967	William A. Newton, M.D..	President-elect for the Pediatric Pathology Club.
1967	William A. Newton, M.D.	American Pediatric Society

<u>DATES</u>	<u>NAMES</u>	<u>HONORS AND SPECIAL APPOINTMENTS</u>
1967	William A. Newton, M.D.	Pediatric Pathology Club, President
November 1968	William A. Newton, M.D.	Active Member Society of Medical Consultants to the Armed Forces
October 1967	George M. Owen, M.D.	Appointed as a member of The Committee on Agricultural Science of The U.S. Department of Agriculture.
1967	George M. Owen, M.D.	Committee on Agricultural Science, U.S. Department of Agriculture
1967	George M. Owen, M.D.	Committee on Maternal Nutrition National Academy of Sciences, National Research Council
1967	George M. Owen, M.D.	Editorial Board, American Journal of Clinical Nutrition
1967	George M. Owen, M.D.	Midwest Society for Pediatric Research
1967	Blanca Smith, M.D., Ph.D.	Medical Education Council, American Medical Association Annual Meeting, Chicago, Illi- nois, national representative
1967	Blanca Smith, M.D., Ph.D.	Honorary Member, Argentine Society of Pediatric Surgery
1967	John P. Smith, M.D.	Society for Pediatric Urology Secretary-Treasurer
1964	Thomas E. Shaffer, M.D.	William Q. Anderson Award by The American Association for Health, Physical Education and Recreation.
1967	Thomas E. Shaffer, M.D.	A.A.P. Council for Physical Fitness, Recreation and Sports.
1967	Thomas E. Shaffer, M.D.	A.A.P. Committee on Youth
1967	Thomas E. Shaffer, M.D.	State Planning Committee for Health Education in Ohio.
1967	Thomas E. Shaffer, M.D.	A.M.A. Committee on Medical Aspects of Sports.
1968	Thomas E. Shaffer, M.D.	A.A.P. Committee on Accident Prevention.

<u>DATES</u>	<u>NAMES</u>	<u>HONORS AND SPECIAL APPOINTMENTS</u>
1968	Thomas E. Shaffer, M.D.	Ohio Advisory Committee on Smoking and Health.
1968	Thomas E. Shaffer, M.D.	Ohio Committee for 1970 White House Conference.
1968	Thomas E. Shaffer, M.D.	Editorial Board Journal of Biology and Medicine of Sport

### III. Programs of Instruction

#### A. Professional -

The Department is not involved directly in teaching programs in any undergraduate area in the University outside of the College of Medicine. However the Department, The Children's Hospital, and the Department of Psychology are very closely associated in the development of a division of Pediatric Clinical Psychology involving students in both graduate and undergraduate levels.

The Department of Pediatrics is active in teaching in all four years of the College of Medicine. In the first year several of the faculty participate in the orientation course recently developed in the College to give freshmen medical students an earlier contract with doctors and patients. The student meets with the preceptor for two or three sessions per week in which problems in the philosophical, ethical and clinical areas of medicine are discussed.

In the second year, the students receive part of their instruction in physical diagnosis under the faculty of the Department of Pediatrics in the wards of the Children's Hospital.

During the third year, the students are committed to the Department of Pediatrics for two months. During this time they have contract with patients both in the outpatient and inpatient areas and work directly with the house

officers and faculty in the care of patients. Usually the teaching ratio is one instructor to three or four students. In addition to the members of the full time faculty, there are approximately forty part time members consisting of nearly all of the Pediatricians in the city. It would be virtually impossible to carry on the teaching responsibilities without this group where they serve as physicians and teachers on the wards and in the outpatient area of the hospital.

During this time, it is the aim to give the students a general idea and appreciation of infants and children with their problems of growth and development, of nutrition and their response to physical, emotional and infectious trauma. It is here that the student receives his instruction and experience in relation of the child to the family, and of the family to the community. There is considerable emphasis on school and learning problems because approximately 10% of all children have some such difficulty.

In the fourth year, students during their elective time may spend it in any of the subdivisions within the Department or may elect to spend it in a preceptor program in some pediatrician's office. Any of these elective periods may consist only of clinical observation and experience or may involve some type and degree of research.

In 1960, three conferences between members of the Department of Pediatrics and leaders in the College of Education were held in an effort to improve the teaching methods and to develop new programs in the department. This was the first such venture in the College of Medicine, and served as a forerunner of the annual educational seminar of the College.

All of the teaching, and other activities in the Department of Pediatrics are confined to Children's Hospital, with the exception of the sub-division of Neonatology which is in the University Hospital under the direction of Drs. Alex Robertson and Richard Nachman. All of the infants in the newborn nurseries at University Hospital are available for student instruction, under

the direction of the Chief of the Sub-division or in the case of a private patient, under the direction of the pediatrician in charge of the infant. It is now possible, with increased laboratory facilities and more available space in the nursery area of University Hospital, to perform exchange transfusions in erythroblastotic infants. This is of teaching value and makes it unnecessary to transport such babies across the city to Children's Hospital. A new intensive care unit for prematures and ill newborn infants is under construction in University Hospital.

#### B. Graduate and Postgraduate

The graduate program of medical instruction involves some 50 House Officers receiving instruction in the wards of the Children's Hospital and on the newborn unit of the University Hospital. In addition, there are numerous fellowships available in the various subdivisions which give the physician an opportunity to devote part of his time to research or to a more extensive clinical experience in the selected area.

Regulations by the American Board of Pediatrics now make it possible for a graduate physician who has spent one year in a pediatric internship and one year in a pediatric residency to continue during his third year in working toward a graduate degree or in a program that will fit him for a career in community pediatric medicine.

Previous to 1958, there had been developed a graduate program within the Department of Pediatrics similar to that in other departments in the College of Medicine, that led to the degree of Master of Science in Pediatrics. Many of the residents in the Department had some research responsibility and many of them pursued this with a controlled program and acquired the above mentioned degree. This program has been discontinued in all areas of the College of Medicine;

however, the student still may elect to continue in the acquisition of a Master's or a Ph.D. degree. The requirements are much more extensive than under the former arrangement.

Numerous members of the Department have been accredited by The Graduate School of the University as advisors to students seeking the degree of Master of Science in Pediatrics or other graduate degrees in the University. These include William E. Newton, Thomas E. Shaffer, Hilda Knobloch, William O. Robertson, George M. Owen, Bruce D. Graham, E. V. Turner, Carl E. Nelsen, Don M. Hosier, Alex F. Robertson, Paul Y. Ertel, Henry Cramblett, Philip Ambuel, Warren E. Wheeler, Thomas K. Oliver, Robert Blizzard, Juon Sotos, Orville Green, E. H. Baxter.

#### Degree Master of Science in Pediatrics

1959	Seeta Sinclair, M.D. Robert Shaw, M.D.
1960	Walter Murray, M.D. Maurice Dyer, M.D.
1961	D. D. Talbut, M.D. F. P. Rothman, M.D.
1962	Lavinia (Evangelista) Braun, M.D. Julius Hoffman, M.D.

#### IV. Hospital Facilities

The Columbus Children's Hospital is an institution of 301 beds, one of the largest in the United States. There are approximately 15,000 admissions to the hospital per year, over 125,000 visits to the outpatient area and approximately 40,000 visits to the emergency room. At present, there are fairly adequate office facilities for the full time faculty. There is an auditorium which will seat over two hundred persons as well as seminar and



classrooms available for the teaching of small groups of students. In addition, an HEW Grant to the hospital of \$1,400,000 has made it possible to provide pediatric health facilities in areas of the city previously without good health care. This is accomplished by establishment of satellite clinics that are open two to five days per week. These clinics are located in the so called poverty areas with one clinic devoted to the care of adolescents. From these satellite clinics, severely ill infants and children are referred to the hospital for more complete diagnostic and therapeutic care. This is in keeping with the proposition that a medical college must assume a gainful, purposeful, long range and increasing responsibility for the health care and health resources in its area of influence and in its immediate vicinity.

One facet of this hospital facility is the Poison Control Center maintained jointly by the hospital and United Community Fund. It provides service to a wide area of Central Ohio. During the past year, there were 4,500 telephone inquiries concerning poison ingestions with 1,045 patients requiring observation and treatment in the emergency room or in the wards of the hospital.

#### V. Research

The main function of any Medical College is the production of physicians, which means in the main, the teaching of medical students. Nevertheless, this teaching cannot be done unless it is closely associated with patient care, where the student learns by doing, and by development of new principles and ideas from research. Therefore, the three principal supports of medical education are teaching, patient care, and research. It is not necessary that every teacher be actively and completely engaged in research. Nevertheless, a good teacher must be aware of research principles and the results of research as related to the teaching problems at hand. The application of the

principles of research, first carried out in patient care, results in the general overall improvement of health care of all ages.

The Department of Pediatrics has always been interested in research and in the last ten years has developed a constant and greatly increasing involvement in it, both from the standpoint of personnel and facilities.

Research programs became more extensive between the years of 1953 to 1958. As more support became available, it was realized that a separate organization to manage research should be established within the department and associated with Children's Hospital since most of the work would be carried on there. This organization was first known as CHILD-Children's Hospital Investigative Laboratory Division. Under its constitution, directors were selected including members of the Department, the hospital administrative office and the board of trustees of Children's Hospital. All papers published as a result of such research, required approval of the publication committee of the organization.

Later, this was changed to the Children's Hospital Research Foundation, with a larger board of directors, including representatives of other areas of the College of Medicine, University Research areas, the board of trustees of the Children's Hospital, members of the Department of Pediatrics and the divisions of Pediatric Surgery. Financial support for such research has come from National Science Foundations, from Ohio Research Funds, from Federal Grants, various private foundations and donations. Financial support in the past year, has exceeded one million dollars, of which over four-fifths have been direct grants to the hospital.

In 1956, it became apparent that it was necessary to have some physical facility for research. In 1957, application was made to the National Institutes of Health for a grant for construction of such a facility. A grant of \$180,000 was approved in 1958, to be matched by the Hospital. This was secured through a donation from the Ross Laboratories in honor of Mr. Ross,

one of the founders of that organization. This building was completed in 1961, providing about twenty thousand square feet for research in animal and basic research areas. This was soon outgrown and in 1966, two additional floors were added to total about thirty-two thousand square feet. This houses the research divisions of Pathology, Virology, Nutrition, Animal and Surgical Research.

In 1962, a grant of seven hundred and fifty thousand dollars was received from The National Institutes of Health for the development of a clinical research center consisting of six beds with adequate supporting laboratory facilities and personnel. This was opened in 1964, and has been active in the production of clinical research.

The Children's Mental Health Center was completed in 1962. This is a community supported project, although located within the Children's Hospital Medical Complex. The Franklin County Crippled Children's Building is also located adjacent to the hospital although there is no relationship with the Department of Pediatrics or the College of Medicine.

The number of articles published and the research expenditures for each year in the last decade are shown in Tables I and II. The research projects, the investigator, and the source of funds for the year 1968 are shown in Table III.

TABLE I  
PAPERS PUBLISHED

<u>YEAR</u>	<u>NUMBER OF PAPERS PUBLISHED</u>
1959	23
1960	12
1961	15
1962	13
1963	8
1964	9
1965	13
1966	26
1967	31
1968	53

TABLE II  
RESEARCH EXPENDITURES

<u>YEAR</u>	<u>AMOUNT</u>
1959	\$ 285,000.00
1960	239,719.54
1961	299,379.41
1962	291,580.72
1963	372,656.07
1964	223,620.19
1965	437,797.31
1966	640,105.60
1967	996,242.14
1968	1,077,045.00

Table III

## PROJECTS ADMINISTERED BY C.H.R.F.

January 1, 1968 - December 31, 1968

N.I.H. Grants

<u>Investigator</u>	<u>Title</u>	<u>Expenditures</u>
Cramblett, H. G.	Longitudinal Study of Infections in a Children's Home	\$ 9,480.43
Cramblett, H. G.	Studies of Juvenile Rheumatoid Disease	14,102.58
Cramblett, H. G. Haynes, R. E.	Central Nervous System Viral Infections and Sequelae	34,116.52
Kontras, S. B.	Capillary Development in Congenital Heart Disease	16,775.52
Newton, W. A., Jr. Samuels, L. D. Stevenson, T. D.	Cooperative Study of the Therapy of Acute Leukemia	101,489.90
Sotos, J. F.	Studies in Intracellular pH in Animals and Children	16,731.82
Sotos, J. F. Graham, B. D.	General Clinical Research Center For Children	234,748.67
	Total	\$ 427,445.44

N.I.H. Contract

Hamparian, V. V. Conant, R. M. Cramblett, H. G. Thomas, D. C.	Establishment of Rhinovirus Reference Center	\$ 85,957.89
	Total	\$ 85,957.89

## PROJECTS ADMINISTERED BY C.H.R.F.

Grants by Nonprofit Granting Agencies

<u>Investigator</u>	<u>Title</u>	<u>Expenditures</u>
Addanki, S. Sotos, J. F. Cahill, F. D.	Ion Transport and Intramitochondrial pH	\$ 30,509.65
Addanki, S.	Studies on Ion Transport and Intra-mitochondrial pH of Heart	10,236.22
Cramblett, H. G.	Laboratory and Clinical Studies of Cephaloridine (Compound 40602)	188.14
Cramblett, H. G.	Infectious Disease Development Fund	106.45
Ertel, I. J.	Immunologic Studies in Childhood Leukemia	665.08
Ertel, I. J.	Immunologic Studies in Childhood Leukemia - Kevin Wilcox Fund	1,413.22
Ertel, P. Y.	The Post-Pericardiotomy Syndrome in Children: Attempts to Isolate Viruses, Mycoplasmas and Bacterial L-Forms	112.47
Haynes, R. E. Cramblett, H. G.	Evaluation of Rubella Virus Vaccine	239.34
Haynes, R. E.	Rubella Reference Laboratory	13,134.20
Owen, G. M. Nelsen, C. E.	Evaluation of Nutritional Status of Preschool Children in the U.S.	291,209.17
Owen, G. M. Nelsen, C. E.	Effect of Dietary Salt During First Year of Life	13,134.20
Sotos, J. F.	Effect of Poisons on the Metabolism of Cells and Subcellular Particles	5,620.56
	Total	\$ 366,568.70

## PROJECTS ADMINISTERED BY C.H.R.F.

General Research Support Grants

<u>Investigator</u>	<u>Title</u>	<u>Expenditures</u>
Aubele, A. M.	Studies on the Suppressor-erupt System in <i>Drosophila Melanogaster</i>	\$ 2,362.03
Boggs, D. E.	Investigations on Histidinemia and Histidase	2,227.92
Boggs, D. E.	Enzyme Replacement Therapy for Histidase Deficiency (Histidinemia)	145.82
Bullock, J. D.	Inflammatory Reaction in the Neonate: In Health and Disease	100.60
Cramblett, H. G.	Central Animal Facilities	611.31
Cramblett, H. G.	Maintenance of Central Facilities - Ross Hall	999.07
Eberly, F. W.	Laryngeal Pathology in Rock-N-Roll Singers	38.72
Eberly, F. W.	Rock-N-Roll Deafness	500.00
Ertel, I. J. Meites, S. Ambuel, J. P.	Albumin in Hemolytic Disease of the Newborn	803.19
Ertel, I. J.	Study of Cellular Reactions in Children with Solid Tumors	3,729.57
Ertel, I. J.	Albumin in Hyperbilirubinemia of the Newborn	956.24
Ertel, P. Y.	Study of Post-Pericardiotomy Syndrome	4,000.00
Meites, S.	Serum Maltase and Amylase in Pancreatitis	1,132.03
Nelsen, C. E. Taylor, J. F.	Selectivity of Proteinuria in Various Renal Diseases	1,550.34
Pollack, J. D.	Chemical and Enzymic Content of <u>Mycoplasma pneumoniae</u> Membranes	3,768.60
Pollack, J. D.	The Biosynthesis of Fatty Acids and Their Incorporation into Membranes by <u>Mycoplasma pneumoniae</u> and Related Organisms	627.90

## PROJECTS ADMINISTERED BY C.H.R.F.

## General Research Support Grants (continued)

<u>Investigator</u>	<u>Title</u>	<u>Expenditures</u>
Reiner, C. B.	Coagulative Factors in Fractions of Human Plasma	\$ 1,374.29
Rie, H. E.	Planning and Pilot Project in the Study of Learning Disorders	240.54
Ruma, S. J. Turner, E. V.	Video-Tape Evaluation of Medical Students Learning Pediatrics	269.45
Sabatino, D. A.	Psychological and Behavioral Correlaries of Post Viral Illness in Children	1,263.38
Somerson, N. L.	Nutritional Requirements of Mycoplasma	1,218.41
Sommer, A.	Capillary Microscopy as a Method of Screening for Diabetes in High Risk Families	509.40
Thomas, D. C.	Basic Studies on Rhinoviruses	626.11
Vig, B. K.	Study of Chromosomal Aberrations <u>in vitro</u> Induced by Drugs	2,500.00
	Total	\$ 31,554.92

Other Grants

Cramblett, H. G.	Equipment Fund	\$ 1,110.00
	Total	\$ 1,110.00

## PROJECTS ADMINISTERED BY O.S.U.R.F.

N.I.H. Grants

<u>Investigator</u>	<u>Title</u>	<u>Expenditures</u>
Reiner, C. B.	Tissue Heparin Levels in Fetus and Newborn	\$ 13,767.58
Robertson, A. F.	Lipid Metabolism in the Human Placenta	12,583.00
Somerson, N. L.	The Influence of Cultural Conditions and Concentration Procedures on the Antigenicity of <u>Mycoplasma pneumoniae</u> Vaccines	32,970.72
Somerson, N. L.	Pulmonary Physiology in Infection with Mycoplasmas	13,754.25
	Total	\$ 73,075.55

Grants by Nonprofit Granting Agencies

Eaton, A.	Birth Defects Special Treatment Center	28,463.62
Robertson, A. F.	Newborn Care	50,373.00
	Total	\$ 78,836.62

Institution Grants

Ertel, I. J.	Immunologic Studies in Children with Cancer	3,161.93
	Total	\$ 3,161.93

General Research Support Grants

Addanki, S.	Effect of Chemotherapeutic Agents on Intramitochondrial pH (pH <sub>m</sub> ) of Human Cancer Tissue	\$ 5,261.00
Bullock, J. D.	Development of a Micromethod for the Lymphocyte Transformation Test for studies of Drug Sensitivity in Pediatric Patients	437.00
Kontras, S. B. Shaffer, T. E.	The Inflammatory Cycle in Juvenile Diabetes	3,431.00



PROJECTS ADMINISTERED BY O.S.U.R.F.  
General Research Support Grants (Continued)

<u>Investigator</u>	<u>Title</u>	<u>Expenditures</u>
Sommer, A. Bodenbender, J. Kontras, S. B.	Capillary Microscopy as a Method of Screening for Diabetes in High Risk Families	\$ 205.00
	Total	\$ 9,334.00

TOTAL GRANT AND CONTRACT EXPENDITURES FOR 1968

Grants and Contracts Administered by Children's Hospital Research Foundation	\$ 912,636.95
Grants and Contracts Administered by Ohio State University Research Foundation	\$ 164,408.10
TOTAL	<u>\$1,077,045.05</u>

## VI. Faculty Biographies

ADDANKI, SOMASUNDARAM

M.Sc. OSU 1962; Ph.D. OSU 1964; Instr. 1964; Asst. Prof. 1966-

AINSWORTH, LOUISE P.

B.S. Washington U. 1931; M.D. Washington U. 1931; Instr. 1952  
Asst. Prof. 1965-1966

AINSWORTH, MARION L.

B.A. OSU 1927; M.D. U. of Michigan 1931; Instr. 1936; Asst. Prof. 1943;  
Assoc. Prof. 1965-

AMBUEL, J. PHILIP

A.B. Lutheran College, Iowa 1941; M.D. U. of Chicago 1946; Asst. Prof. 1953;  
Assoc. Prof. 1959; Prof. 1965-

APLIN, MARY E.

A.B. OSU 1928; M.D. Western Reserve 1933; Instr. 1958; Asst. Prof. 1963-

ANDERSON, HOMER A.

A.B. and B.S. Muskingum College 1935; M.D. OSU 1943; Instr. 1946; Asst.  
Prof. 1955; Assoc. Prof. 1965; Prof. 1968-

AUBELE, AUDREY M.

B.A. College of St. Marys of the Springs 1960; Ph.D. OSU 1966; Asst. Prof. 1968-

BALDOCK, WILLIAM E.

A.B. Sidney College 1942; M.D. Jefferson Medical College 1954; Instr. 1951;  
Asst. Prof. 1955; Assoc. Prof. 1968-

BASS, JACK C.

M.D. Washington U. 1952; Instr. 1957; Asst. Prof. 1963; Assoc. Prof. 1968-

BATTERSON, ROBERT E.

M.D. OSU 1954; Instr. 1957; Asst. Prof. 1966-

BAXTER, EARL H.

B.A. OSU 1915; M.D. OSU 1918; Instr. 1919; Asst. Prof. 1925; Assoc. Prof.  
1938; Prof. 1940; Chief of Pediatrics 1939-41, Dept. of Medicine; Prof. and  
Chrmn., Dept. of Pediatrics 1941-63; Prof. Emeritus 1963-

BLIZZARD, ROBERT M.

B.S. Northwestern U. 1948; M.D. Northwestern U. 1952; Asst. Prof. 1957;  
Assoc. Prof. 1959-60

BOGGS, DALLAS E.

M.D. Cornell U. 1966; Asst. Prof. 1968-

CODDINGTON, R. DEAN - See Department of Psychiatry

CONANT, ROBERT

B.A. Harpur College - S.U.N.Y. 1958; M.A. S.U.N.Y. 1963; Ph.D. S.U.N.Y. 1966;  
Asst. Prof. 1967-

CRAMBLETT, HENRY G.

B.S. Mt. Union College 1950; M.D. U. of Cincinnati, College of Medicine  
1953; Prof. 1964-

DONALDSON, EDWARD E.

B.A. Marietta College 1942; M.D. Western Reserve U. 1951; Instr. 1954;  
Asst. Prof. 1965-

EATON, ANTOINETTE

B.S. Geneva College 1952; M.D. Women's Medical College of Pennsylvania 1956;  
Instr. 1957; Asst. Prof. 1965-

EBERLY, FRANCIS W.

B.A. OSU 1950; M.D. OSU 1954; Instr. 1957; Asst. Prof. 1960-

EDELMAN, SAMUEL D.

M.S. OSU 1914; Instr. 1926; Asst. Prof. 1929; Assoc. Prof. 1942; Assoc.  
Prof. Emeritus 1962-

EISENBERG, NATHAN P.

B.S. Fordham U. 1928; M.P.H. Columbia U. 1953; M.D. New York U. 1932;  
Asst. Prof. 1955-1960

ERTEL, INTA J.

B.S. Mary Washington 1955; M.D. U. of Virginia 1959; Asst. Prof. 1966-

ERTEL, PAUL Y.

B.S. Roanoke 1955; M.D. U. of Virginia 1959; Asst. Prof. 1966-

FALKENSTEIN, DOROTHY

B.A. OSU 1932; M.D. OSU 1936; Instr. 1953; Asst. Prof. 1959; Assoc. Prof. 1963-

FERNALD, WILLARD B.

A.B. Brown U. 1947; M.D. Harvard U. 1951; Instr. 1964; Asst. Prof. 1967-

FRYE, THOMAS R.

B.S. OSU 1951; M.D. OSU 1954; Asst. Prof. 1963; Assoc. Prof. 1968-

GIBSON, WILLIAM M.

B.A. New Brunswick U. 1946; M.D. McGill U. 1950; Assoc. Prof. 1964-

GOOREY, LOUIS J.R.

B.S. OSU 1953; M.D. OSU 1957; Instr. 1964; Asst. Prof. 1967-

GOVE, ROGER M. - see Department of Psychiatry

GRAHAM, BRUCE D.

A.B. U. of Alabama 1939; M.D. Vanderbilt U. 1942; Prof. and Chrmn.,  
Department of Pediatrics 1964-

GRANT, DONALD K.

B.S. U. of Adelaide, Australia 1942; M.D. U. of Adelaide 1942; Asst.  
Prof. 1958-1961

GREEN, ORVILLE C.

B.A. Harvard U. 1949; M.D. Northwestern U. 1954; Asst. Prof. 1960; Assoc.  
Prof. 1962-1963

HALES, CECIL W.

B.A. OSU 1942; M.D. OSU 1946; Instr. 1952; Asst. Prof. 1965-

HAMPARIAN, VINCENT V.

B.A. Wayne State U. 1950; M.S. Wayne State U. 1951; Ph.D. U. of Pennsylvania 1958; Assoc. Prof. 1964; Prof. 1968-

HAYNES, RALPH E.

U. of Richmond 1941-1945; M.D. Medical College of Virginia 1949; Instr. 1965; Asst. Prof. 1966-

HELPER, MALCOLM M.

B.S. U. of Illinois 1949; M.A. U. of Illinois 1951; Ph.D. U. of Illinois 1954; Assoc. Prof. 1968-

HOFFMAN, JULIUS

B.A. U. of New York 1944; M.D. U. of New York 1944; M.M.Sc. OSU 1962; Assoc. Prof. 1962-1963

HORNSBY, LAWRENCE G. - see Department of Psychiatry

HOSIER, DON M.

B.S. Capital U. 1945; M.D. OSU 1947; Asst. Prof. 1953; Assoc. Prof. 1959; Prof. 1965-

HOSTERMAN, OLIVER W.

A.B. Cornell U. 1929; M.D. Harvard Medical School 1933; Instr. 1942; Asst. Prof. 1944; Assoc. Prof. 1955-

HOWARD, WILLIAM H.R.

A.B. OSU 1938; M.D. Western Reserve U., School of Medicine 1942; Instr. 1946; Asst. Prof. 1952; Assoc. Prof. 1959; Prof. 1968-

KASMERSKY, CHESTER T.

B.A. OSU 1943; M.D. OSU 1946; Instr. 1949; Asst. Prof. 1955; Assoc. Prof. 1964-

KHEDER, JAMIL

M.D. U. of Bagdad 1943; Instr. 1961; Asst. Prof. 1962-1963

KNOBLOCH, HILDA

B.A. Bernard College 1936; M.D. New York U. 1940; M.P.H. Johns Hopkins U. 1941; D.P.H. Johns Hopkins U. 1955; Asst. Prof. 1955; Prof. 1962-1966

KONTRAS, STELLA B.

B.A. OSU 1948; M.A. OSU 1949; M.D. OSU 1953; Instr. 1959; Asst. Prof. 1960; Assoc. Prof. 1966; Prof. 1969-

LEVITIN, MILTON

B.A. Columbia 1939; M.D. New York U., College of Medicine 1943; Instr. 1953; Asst. Prof. 1965-

LYON, FRANKLIN L.

A.B. Bowling Green 1950; M.D. OSU 1954; Instr. 1960; Asst. Prof. 1966-

MARKS, LILLIAN

B.A. OSU 1938; M.Sc. 1939; M.D. OSU 1943; Instr. 1952; Asst. Prof. 1966-

McCALL, EDWARD W.

A.B. Ohio U. 1931; M.D. U. of Cincinnati 1935; Instr. 1946; Asst. Prof. 1955-

## Faculty Biographies

McCLAVE, CHARLES R.

B.S. Ohio U. 1944; M.D. OSU 1946; Instr. 1951; Asst. Prof. 1955; Assoc. Prof. 1961-

MEITES, SAMUEL

A.B. U. of Missouri 1942; Ph.D. OSU 1950; Instr. 1954; Asst. Prof. 1960; Assoc. Prof. 1966-

MILLER, CHARLES E.

B.S. OSU 1953; M.D. Vanderbilt U. 1957; Asst. Prof. 1964; Assoc. Prof. 1968-

MISSILDINE, W. HUGH - see Department of Psychiatry

MITCHELL, HOWARD R.

M.D. OSU 1923; Instr. 1953; Instr. Emeritus 1968-

MOORE, TOM D.

B.S. Oklahoma State 1951; M.D. Oklahoma State 1954; Instr. 1968-1969

NAYLOR, AUDREY JEANE

B.A. U. of California 1953; M.D. U. of California 1955; M.P.H. U. of California 1965; Asst. Prof. 1968; Assoc. Prof. 1969-

NELSEN, CARL E.

B.A. U. of Iowa 1956; M.D. U. of Iowa 1960; Asst. Prof. 1966-

NEWTON, WILLIAM A. - see Department of Pathology

OLIVER, THOMAS K.

M.D. Harvard Medical School 1949; Asst. Prof. 1955; Assoc. Prof. 1958-1963

OWEN, GEORGE M.

A.B. Hiram College 1951; M.D. U. of Cincinnati 1955; Assoc. Prof. 1966-

POLLACK, J. DENNIS

M.D. Connecticut 1966; Asst. Prof. 1968-

REINER, CHARLES B.

A.B. Temple U. 1942; M.D. Temple U. 1945; M.Sc. Temple U. 1953; Instr. 1964; Asst. Prof. 1966-

RIE, HERBERT E.

B.S. Union College 1953; Ph.D. Western Reserve U. 1959; Assoc. Prof. 1967-

RIEPENHOFF, JOHN P.

B.A. OSU 1942; M.D. Georgetown U. 1945; Instr. 1948; Asst. Prof. 1955; Assoc. Prof. 1967

ROBERTSON, ALEX F.

B.A. U. of Virginia 1953; M.D. U. of Virginia 1957; Asst. Prof. 1965; Assoc. Prof. 1967-

ROBERTSON, WILLIAM O.

B.A. U. of Rochester 1946; M.D. U. of Rochester, School of Medicine 1949; Inst. 1956; Asst. Prof. 1960; Assoc. Prof. 1962-1963

## Faculty Biographies

ROBBINS, MALCOLM L.

B.S. U. of Maryland 1949; M.D. U. of Maryland 1952; Instr. 1957; Asst. Prof. 1965-

RUEGER, WILLIAM J.

B.S. U. of Dayton 1952; M.D. U. of Cincinnati 1956; Instr. 1960; Asst. Prof. 1965-

RUMA, STEVEN J.

B.S. Columbia U. 1961; M.A. Boston U. 1964; Ph.D. OSU 1966; Asst. Prof. 1967-

RUPPERT, ELIZABETH S.

B.A. Tulane 1957; M.D. OSU 1961; Instr. 1965; Asst. Prof. 1968-

SAMUELS, LARRY

B.A. Blackburn College 1955; B.S. U. of Illinois 1957; M.D. U. of Illinois 1959; Asst. Prof. 1965-1968

SAUERS, ADELAIDE E.

A.B. Western Reserve 1947; M.D. Western Reserve 1951; Instr. 1955; Asst. Prof. 1965-

SCHEIP, JAMES R.

B.S. Purdue U. 1942; M.D. U. of Cincinnati Medical School 1945; Instr. 1964; Asst. Prof. 1965; Assoc. Prof. 1968-1969

SCHMIDT, MARY A.

B.S. U. of Minnesota 1936; M.D. U. of Minnesota 1939; Asst. Prof. 1957-1959

SEYMOUR, MINER W.

A.B. OSU 1934; M.D. OSU 1937; Instr. 1942; Asst. Prof. 1946; Assoc. Prof. 1955; Prof. 1966-

SHAFFER, THOMAS E.

A.B. Cornell U. 1929; M.D. Cornell U. 1932; Assoc. Prof. 1946; Prof. 1949-

SHERARD, EARL S.

OSU 1945-1947; M.D. OSU 1951; Asst. Prof. 1963; Assoc. Prof. 1968-

SHULTZ, JOHN P.

B.A. OSU 1954; M.D. OSU 1958; Instr. 1965; Asst. Prof. 1968-

SIVON, IOLA A.

B.A. U. of Alabama 1935; M.D. Western Reserve 1939; Asst. Prof. 1960-

SOMERSON, NORMAN I.

B.S. U. of Valencia, Spain 1951; Asst. Prof. 1962; Assoc. Prof. 1964; Prof. 1967-

SOTOS, JUAN F.

M.D. Medical School of Valencia, Spain 1951; Asst. Prof. 1963; Prof. 1967-

STROEBEL, FRANK W.

B.S. OSU 1954; M.D. OSU 1968; Instr. 1964; Asst. Prof. 1968-

Faculty Biographies

SYLVESTER, ROBERT F.

B.S. James Millikin U. 1942; M.D. Washington U. 1945; Instr. 1948; Asst. Prof. 1955; Assoc. Prof. 1966-

TURNER, EDWARD V.

A.B. Ohio U. 1934; M.D. Harvard U. 1938; Asst. Prof. 1948; Assoc. Prof. 1961; Prof. 1968-

WHEELER, WARREN E.

B.S. Mt. Union College 1929; M.D. Harvard 1933; Assoc. Prof. 1946-48; Prof. 1948-1963

YOUNG, GORDON A.

M.D. U. of Manitoba, Canada 1957; Instr. 1963; Asst. Prof. 1968-

INSTRUCTORS

ALEXANDER, ALAN A.

B.A. Ohio Wesleyan U. 1961; M.D. OSU 1965; Instr. 1968-

BARNES, ELIZABETH V.

M.D. U. of Virginia 1938; Instr. 1953-

BASHE, WINSLOW J.

B.S. Seton Hall College 1942; M.D. Loyola U., Chicago 1945; M.P.H. Columbia U. 1959; Instr. 1958-1963

BEESELEY, JAMES M.

M.D. U. of Michigan 1943; Instr. 1957-

CALLAHAN, VIOLET

B.A. Brown U. 1933; M.S.S. Smith College 1945; Instr. 1965-1966

CHARMEIDES, LEON

B.A. Yeshiva College 1955; M.D. Albert Einstein College of Medicine 1959; Instr. 1962-1964

CLARK, ARTHUR L.

M.D. Howard U. 1952; Instr. 1959-

COOPER, ROBERT F.

M.D. OSU 1949; Instr. 1955-

CRAENEN, JO

M.D. Louvain, Belgium 1960; Instr. 1967-

DECKER, HAROLD A.

B.S. U. of Utah; M.D. U. of Utah 1956; Instr. 1961-1964

DUNN, THOMAS R.

B.S. OSU 1954; M.D. OSU 1961; Instr. July-December 1964

EAKINS, JOEL K.

M.D. U. of Illinois 1956; Instr. 1961-1962

EDMOND, ELIZABETH W.

A.B. Albion College 1956; B.S. U. of Michigan 1960; Instr. 1964-1965

FILER, LLOYD JACKSON

B.S. U. of Pittsburgh 1941; Ph.D. U. of Pittsburgh 1944; M.D. U. of Rochester 1952; Instr. 1953-1964

FLEISHER, STEPHEN

M.D. Columbia U. 1951; Instr. 1952-

FREIMANIS, IMANTA V.

M.D. Werzburg, Germany 1962; Instr. 1966-

GERHARDT, WILLIAM JOHN

M.D. U. of Cincinnati 1954; Instr. 1958-1959



## Faculty Biographies

GOLDSTEIN, NORMAN F.

B.S. Emory U. 1945; M.D. Emory U. 1947; Instr. 1958-1959

GRABER, MARY ANN

B.Sc. OSU 1915; M.D. OSU 1924; Instr. 1952-1959

GREEB, CHARLES A.

B.S. U. of Denver 1958; M.D. U. of Denver 1962; Instr. 1968-

GREENBERG, LARRIE W.

B.S. U. of Toledo 1961; M.D. OSU 1965; Instr. 1968-

GROTH, JOHN F.

M.D. U. of Pennsylvania 1955; Instr. 1959-

HARRIS, LEONARD

M.D. New York College of Medicine 1949; Instr. 1959-

HEGGIE, JOHN F.

A.B. Columbia College 1951; M.D. Columbia College of Phys. and Surgeons 1955; Instr. 1969-

KING, JOHN P.

M.D. Ireland 1955; Instr. 1959-

KLAMAR, JOHN A.

A.B. Syracuse U. 1959; M.D. Albany Medical College 1963; Instr. 1966-

KLECKER, RICHARD

M.D. OSU 1959; Instr. 1966-

KMETZ, DONALD

M.D. OSU 1958; Instr. 1963-1964

KREISHLER, JOHN H.

M.S. U. of Delaware; Ph.D. U. of Delaware 1961; Instr. 1963-1964

LARCOMB, JOHN W.

M.D. OSU 1924; Instr. 1959-1962

LEWIS, RALPH F.

M.D. OSU 1960; Instr. 1963-

MANIS, ROBERT

B.S. U. of Wisconsin 1958; M.D. U. of Wisconsin 1961; Instr. 1968-

MAY, ALBERT

B.S. Muhlenberg 1955; M.D. Hahnemann Medical College of Philadelphia 1959; Instr. 1965

McMURPHY, DOROTHY M.

B.A. Mt. Holyoke 1957; M.D. Albany 1961; Instr. 1965-1967

MENKING, MANFRED

M.D. Germany 1961; Instr. 1967-1968

## Faculty Biographies

MORMOL, JOHN L.

M.D. Indiana U. 1960; Instr. 1962-1965

MORRISON, ROBERT B.

M.D. OSU 1944; Instr. 1955-

MURRAY, WALTER A.

A.B. Columbia College 1952; M.D. Cornell U. 1955; Instr. 1961-1963

NACHMAN, RICHARD L.

B.A. Northwestern U. 1957; M.D. U. of Illinois 1961; Instr. 1968-

NAGI, NAGI A.

M.D. Bagdad U. 1958; Instr. 1962-1965

ORR, JAMES M.

M.D. Buffalo U. 1952; Instr. 1959-

PAGE, JOHN G.

A.B. Harvard 1952; M.D. McGill U. 1956; Instr. Jan-June 1965

PARK, ROGER W.

M.D. U. of Michigan 1959; Instr. 1965-

ROTHMAN, FREDERICK B.

B.S. U. of Toledo 1951; M.D. OSU 1955; Instr. July 1959-March 1960

SANDERS, DORIS Y.

B.A. Austin College 1958; M.D. Vanderbilt 1962; Instr. 1965-1966

SECHRIST, GILBERT L.

B.S. U. of Kansas 1952; M.D. U. of Kansas 1956; Instr. 1961-1962

SENGELMANN, HENRY P.

B.A. Colgate U. 1951; M.D. OSU 1956; Instr. 1960-

SHORTZ, DEON KALIN

B.S. OSU 1955; M.D. OSU 1959; Instr. 1963-1966

SINGER, STANFORD A.

M.D. Wayne State U. 1963; Instr. 1968-

SMITH, LOWELL D.

M.D. OSU 1948; Instr. 1953-

SOIFER, MORTON M.

B.A. Providence College 1957; M.D. Tufts U. School of Medicine 1961;  
Instr. 1968-

SOLOMON, IRENE

B.S. Radcliffe 1954; M.D. Harvard 1958; Instr. 1961-1962

SOMMER, ANNEMARIE

B.A. Wittenberg U. 1960; M.D. OSU 1964; Instr. 1967-

ST. JOHN, RUTH HARRIET

B.A. OSU 1927; M.D. OSU 1931; Instr. 1952-1962

Faculty Biographies

TALBUT, DORRENCE C.

B.S. U. of Toledo 1952; M.D. OSU 1955; Instr. 1960-1961

TAN, JOSEFINA

M.D. Santo Tomas Manilla 1957; Instr. 1968-

TAYLOR, JANE F.

A.B. U. of Cincinnati 1945; M.S. OSU 1949; Ph.D. OSU 1964; Instr. 1966-

THOMPSON, SPENCER G.

B.S. Sam Houston College 1943; M.D. U. of Texas 1951; Instr. 1964-1965

TOGUT, MYRA R.

A.B. Vassar 1958; M.D. New York Medical College 1962; Instr. 1965-1967

TOLSON, ROBERT E.

M.D. Vanderbilt 1956; B.S. John Hopkins 1950; Instr. 1959-1963

VACARELLA, JAMES

M.D. St. Louis 1958; Instr. 1966-

VOGT, FRANK C.

A.B. Wesleyan U. 1942; M.D. Cornell U. 1945; Instr. 1954-1965

WADWHA, JANAK

M.D. Gandhi Medical College 1955; B.S. Gandhi Medical College 1960; Instr. 1968-

WAHOFF, CHARLES

M.D. OSU 1962; Instr. 1968-

WEHE, ROBERT A.

M.D. OSU 1961; Instr. 1965-